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## Statistical color models with application to skin det

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### Abstract:

The existence of large image datasets such as photos on the World Wide Web possible to build powerful generic models for low-level image attributes like co simple histogram learning techniques. We describe the construction of color m skin and non-skin classes from a dataset of nearly 1 billion labeled pixels. The exhibit a surprising degree of separability which we exploit by building a skin detector that achieves an equal error rate of 88%. We compare the performan histogram and mixture models in skin detection and find histogram models to in accuracy and computational cost. Using aggregate features computed from detector we build a remarkably effective detector for **naked** people. We believ is the most comprehensive and detailed exploration of **skin color** models to d

### Index Terms:

[image colour analysis](#) [image recognition](#) [information resources](#) [World Wide Web](#) [g models](#) [histogram learning](#) [image datasets](#) [low-level image attributes](#) [photos](#) [skin skin pixel detector](#) [statistical color models](#)

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